According to another related invention, compounds of the formula  $X_5$ -Leu-Asp- $X_7$ -SEQ ID NO:22- $X_6$ , wherein SEQ ID NO:22 is the sequence Asn-Ala-Glu-Val-Tyr, and pharmaceutical compositions thereof are provided wherein

 $X_5$  is from zero to twelve amino acids, more preferably from zero to six amino acids, most preferably from zero to three amino acids;

 $X_6$  is from zero to twelve amino acids, more preferably from zero to six amino acids, most preferably from zero to three amino acids; and

X<sub>7</sub> is Ala or Cys.

Page 11, delete the paragraph spanning lines 29-33 and inset the following substitute paragraph:

**"D3 peptide"** means a peptide of the formula (a)  $X_1$ -SEQ ID NO:1- $X_2$ , (b)  $X_3$ -SEQ ID NO:5- $X_4$ , (c)  $X_5$ -Leu-Asp- $X_7$ -SEQ ID NO:22- $X_6$  were  $X_1$ ,  $X_2$ ,  $X_3$ ,  $X_4$ ,  $X_5$ ,  $X_6$  and  $X_7$  are defined above, or (d) peptide fragment (or analog thereof) of HK domain 3 which is active in inhibiting endothelial cell proliferation and/or inhibiting angiogenesis.

In the Sequence Listing:

Cancel the Sequence Listing and insert the substitute Sequence Listing submitted herewith in paper and electronic form.

## In the Claims:

Cancel claims 9, 10 and 11 without prejudice.

Rewrite claims 1, 3-8, 12-15, 17-21, 23, 27, 29-32, 34-38, 40-43 and 45 to read as follows.

1. (amended) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of the formula  $X_1$ -SEQ ID NO:1- $X_2$  wherein

 $X_1$  is from zero to twelve amino acids, and  $X_2$  is from zero to twelve amino acids,

3. (amended) The composition of claim 1 wherein

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 $X_1$  is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:2 or N-terminal truncation fragment thereof containing at least one amino acid, and

X<sub>2</sub> is

- (i) zero amino acids, or
- (ii) the segment SEQID NO:3, or C-terminal truncation fragment thereof containing at least one amino acid.
- 4. (amended) The composition of claim 1 wherein the compound has substantial amino acid sequence homology to the amino acid sequence SEQ ID NO:4.
- 5. (amended) The composition of claim 1 wherein the compound has the amino acid sequence SEQ ID NO:1.
- 6. (amended) The composition of claim 1 wherein the compound has the amino acid sequence SEQ ID NO:9.
- 7. (amended) The composition of claim 1 wherein the compound has the amino acid sequence SEQ ID NO:10.
- 8 (amended) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of the amino acid sequence SEQ ID NO:5 or SEQ ID NO:11 wherein an internal disulfide bond between the cysteine residues of said compound is optionally present, and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

12. (amended) The composition of claim 8 wherein the compound has the amino acid sequence SEQ ID NO:5.

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- 13. (amended) The composition of claim 8 wherein the compound has the amino acid sequence SEQ ID NO:11.
- 14. (amended) The composition of any of claims 8, 12 or 13 wherein a disulfide bond between the cysteine residues of the compound is present.
- 15. (amended) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound of the formula X<sub>5</sub>-Leu-Asp-X<sub>7</sub>-SEQ ID NO:22-X<sub>6</sub> wherein

X<sub>5</sub> is from zero to twelve amino acids,

X<sub>6</sub> is from zero to twelve amino acids, and

X<sub>7</sub> is Ala or Cys,

and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

17. (amended) The composition of claim 15 wherein

 $X_5$  is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:13, or N-terminal truncation fragment thereof containing at least one amino acid, and

X<sub>6</sub> is

- (i) zero amino àcids, or
- (ii) the segment SEQ ID NO:14, or C-terminal truncation fragment thereof containing at least one amino acid.
- 18. (amended) The composition of claim 15 wherein the compound has substantial amino acid sequence homology to the amino acid sequence SEQ ID NO:17.
  - 19. (amended) The composition of claim 15 wherein the compound has the amino acid

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sequence SEQ ID NO:12.

20. (amended) The composition of claim 15 wherein the compound has the amino acid sequence SEQ ID NO:15.

21. (amended) The composition of claim 15 wherein the compound has the amino acid sequence SEQ ID NO:16.

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- 23. (amended) The composition according to claim 22 wherein the peptide fragment or analog has the amino acid sequence SEQ ID NO:19 or SEQ ID NO:20.
- 27. (amended) A method of inhibiting endothelial cell proliferation comprising contacting endothelial cells with a compound of the formula X<sub>1</sub>-SEQ ID NO:1-X<sub>2</sub> wherein

X<sub>1</sub> is from zero to twelve amino acids, and

X<sub>2</sub> is from zero to twelve amino acids,

and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

29. (amended) \The method of claim 27 wherein

 $X_1$  is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:2, or N-terminal truncation fragment thereof containing at least one amino acid, and

X<sub>2</sub> is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:3, or C-terminal truncation fragment thereof containing at least one amino acid.

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- 30. (amended) The method of claim 27 wherein the compound has the amino acid sequence SEQ ID NO:9.
- 31. (amended) The method of claim 27 wherein the compound has the amino acid sequence SEQ ID NO:10.
- 32. (amended) A method of inhibiting endothelial cell proliferation comprising contacting endothelial cells with a compound of the formula X<sub>3</sub>-SEQ ID NO:5-X<sub>4</sub> wherein

X<sub>3</sub> is from zero to twelve amino acids, and

X4 is from zero to twelve amino acids,

wherein a disulfide bond between the cysteine residues of the segment SEQ ID NO:5 is optionally present, and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

34. (amended) The method of claim 32 wherein

 $X_3$  is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:6, or N-terminal truncation fragment thereof containing at least one amino acid, and

X<sub>4</sub> is

- (i) zero amino acids, or
- (ii) the segment SEQ\ID NO:7, or C-terminal truncation fragment thereof containing at least one amino acid.
- 35. (amended) The method of claim \$2 wherein the compound has the amino acid sequence SEQ ID NO:5.

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- 36. (amended) The method of claim 32 wherein the compound has the amino acid sequence SEQ ID NO:11.
- 37. (amended) The method of any of claims 32-36 wherein a disulfide bond between the cysteine residues of the segment SEQ ID NO:5 of said compound is present.
- 38. (amended) A method of inhibiting endothelial cell proliferation comprising contacting endothelial cells with a compound of the formula X<sub>5</sub>-Leu-Asp-X<sub>7</sub>-SEQ ID NO:22-X<sub>6</sub> wherein

 $X_5$  is from zero to twelve amino acids,

X<sub>6</sub> is from zero to twelve amino acids, and

X<sub>7</sub> is Ala or Cys.

and wherein said compound optionally comprises an amino-terminal and/or carboxy-terminal protecting group.

40. (amended) The method of claim 38 wherein

 $X_5$  is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:13, or N-terminal truncation fragment thereof containing at least one amino acid, and

X<sub>6</sub> is

- (i) zero amino acids, or
- (ii) the segment SEQ ID NO:14, or C-terminal truncation fragment thereof containing at least one amino acid.
- 41. (amended) The method of claim 38 wherein the compound has the amino acid

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